DJI Air 3s

Best settings on DJI Fly app

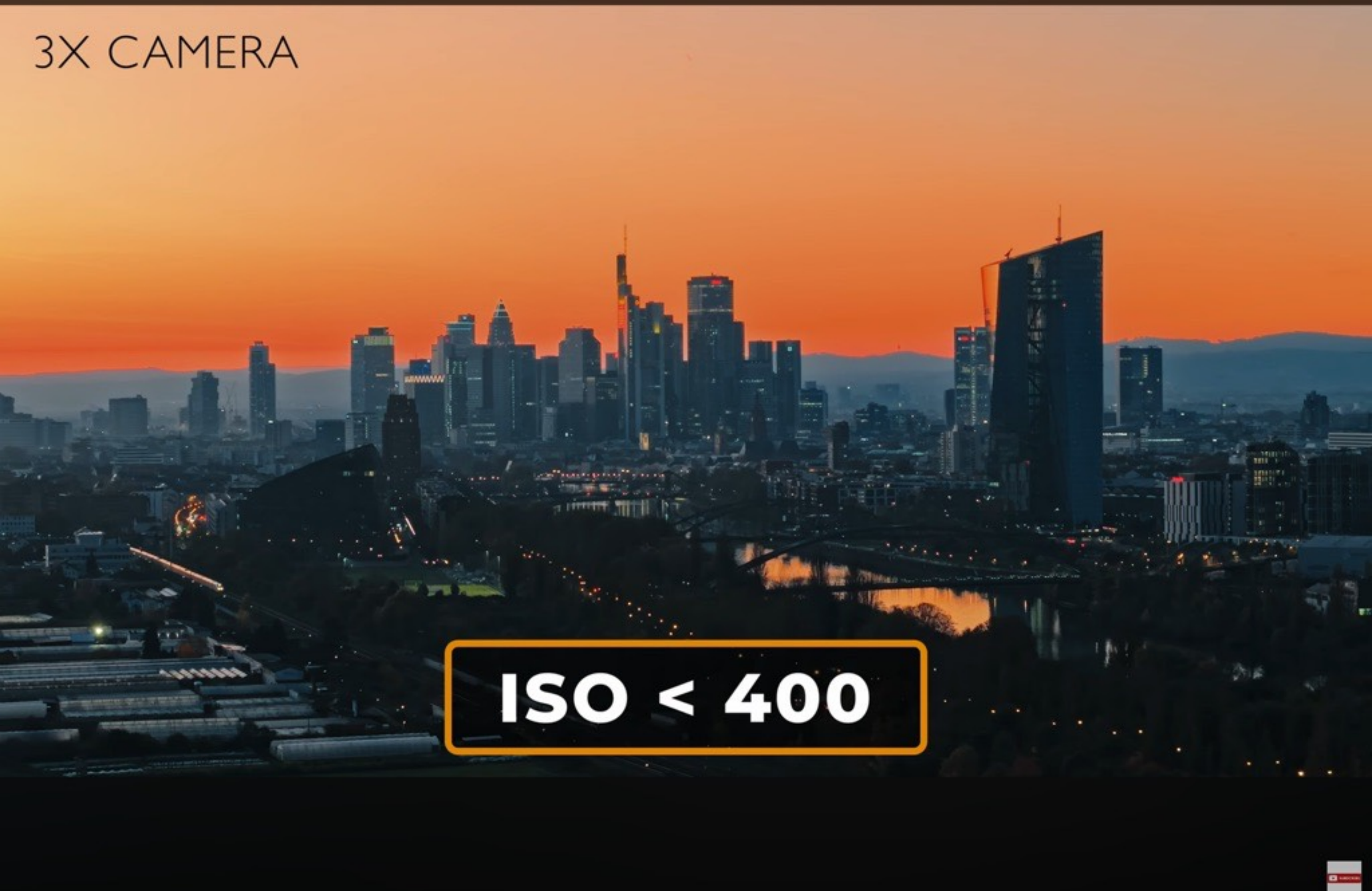
Smg

N Mode
Takeoff permitted
00'00"
ISO
Auto
200
Shutter
Auto
1/2000
EV
0.0
3
PRO

N Mode
Takeoff permitted
100
00'00"
RC
18
3
1×
H
0.0mph
0.0mph
H 0.0ft
D 0.8ft
4K 30
01:07
S 1/2000
F 1.7
Norm.
WB 5900K
ISO 100
MM -1.0
PRO

Exposure Settings: ISO as low as possible (e.g. 100)

Exposure Settings: ISO as low as possible (e.g. 400 @ twilight)



180 Degree Shutter Rule

Shutter Speed = 2X Frame Rate

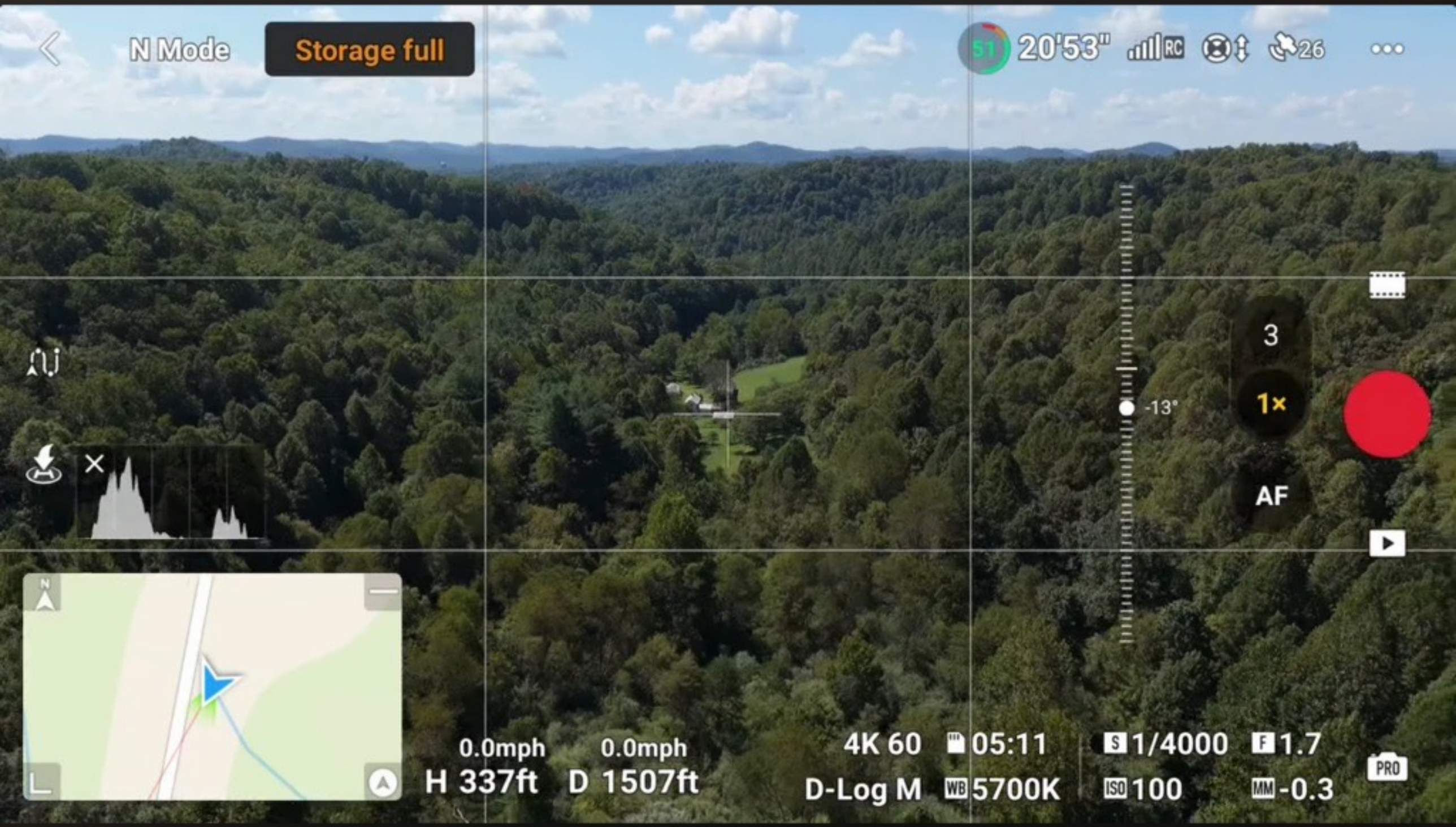
30 FPS X 2 = 1/60th

Slow shutter and ISO may mean you have to put on ND filters

ND64

You can Lock the Exposure by pressing on the screen and holding

1x and 3x zoom and pressing and scrubbing up/down for intermediate zoom

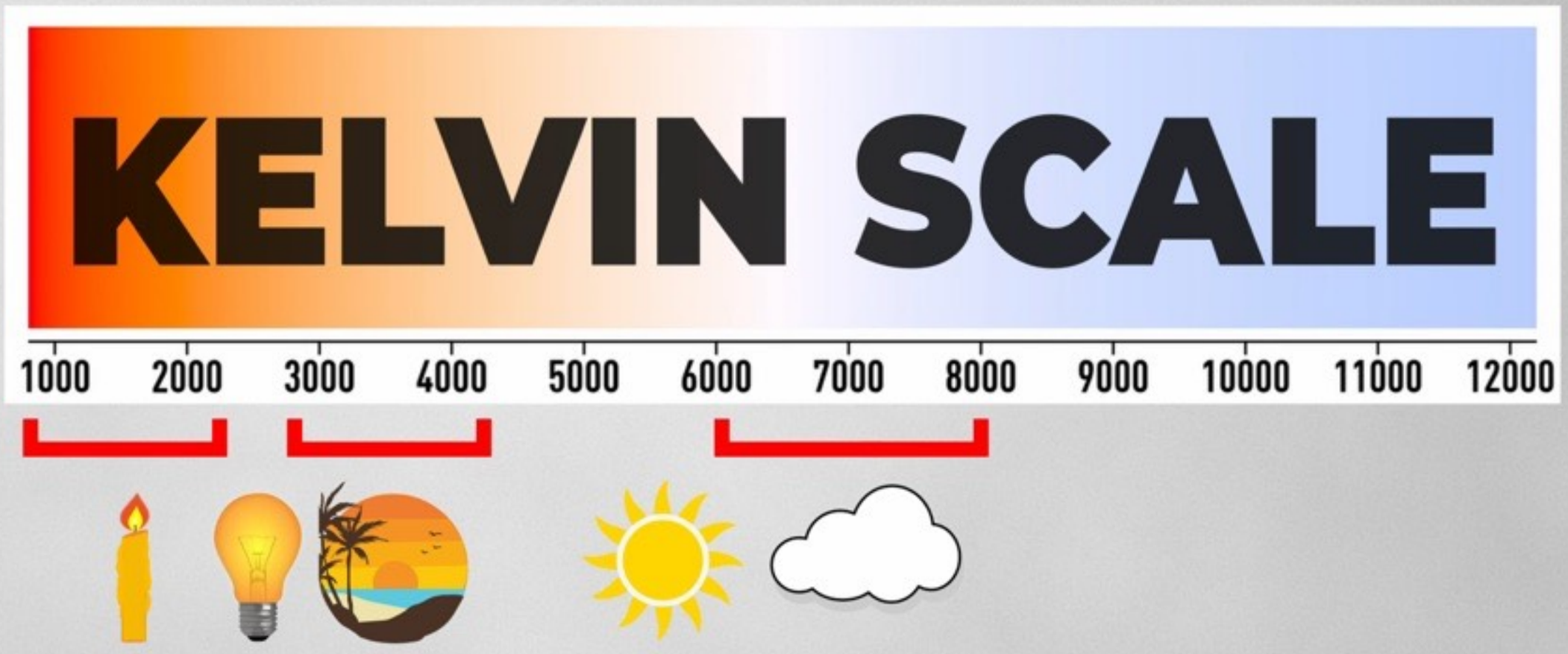


Best to stay at 1x or 3x as all others are “digital zoom”

You can set the C1 button on the back of the controller to “exposure lock”

You can set the C2 button on the back of the controller to
“switch cameras = zoom”

White Balance settings



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Video settings: 4K @ 24 or 30fps may be best for “motion blur”

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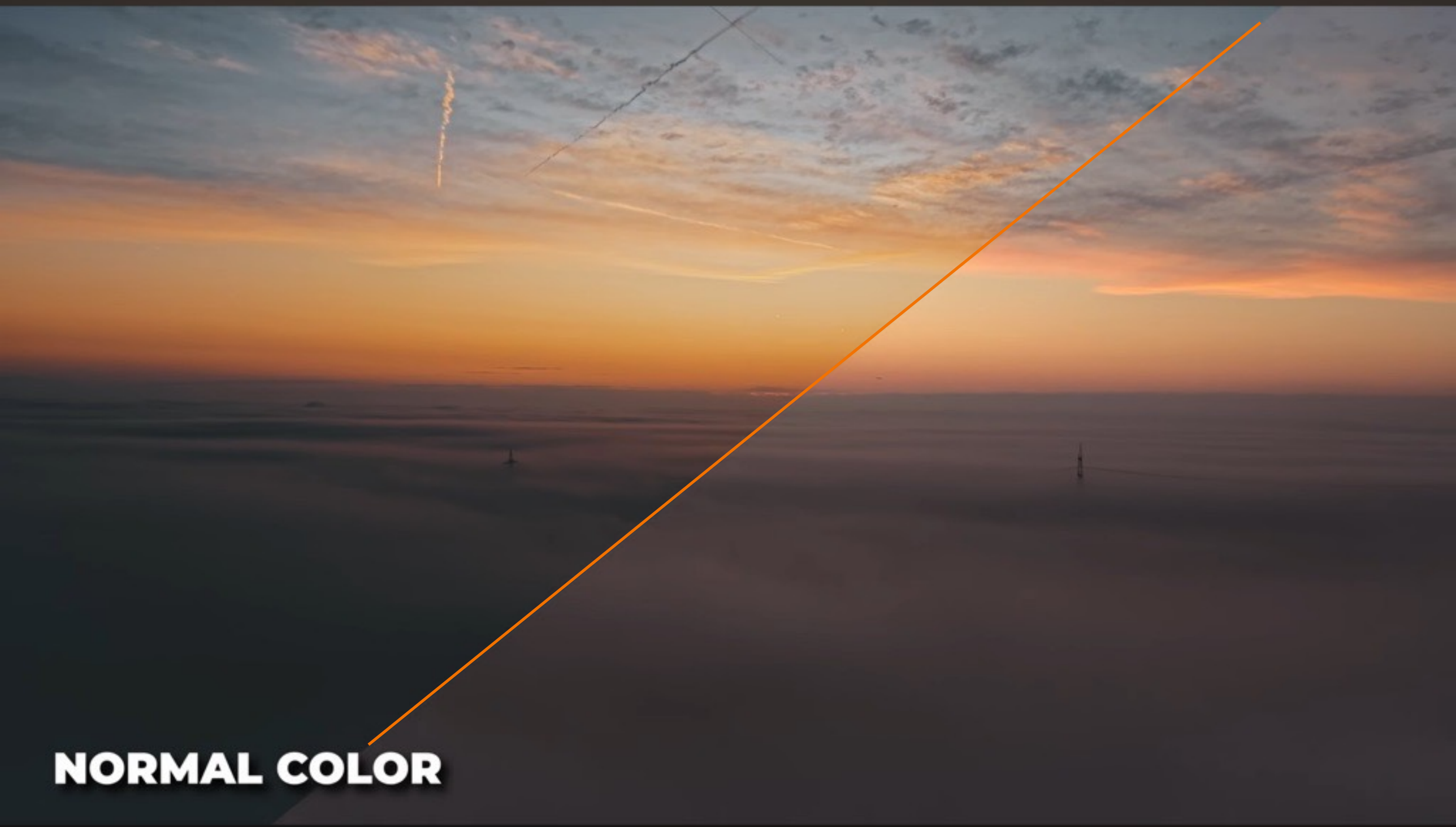
Video settings: “Normal Color vs DLog”



Video settings: “Normal Color vs DLog”

Video settings: here set to 4K 60fps (a little slow-motion)

“Control” settings: Gain & Expo (to control the “sticks”)

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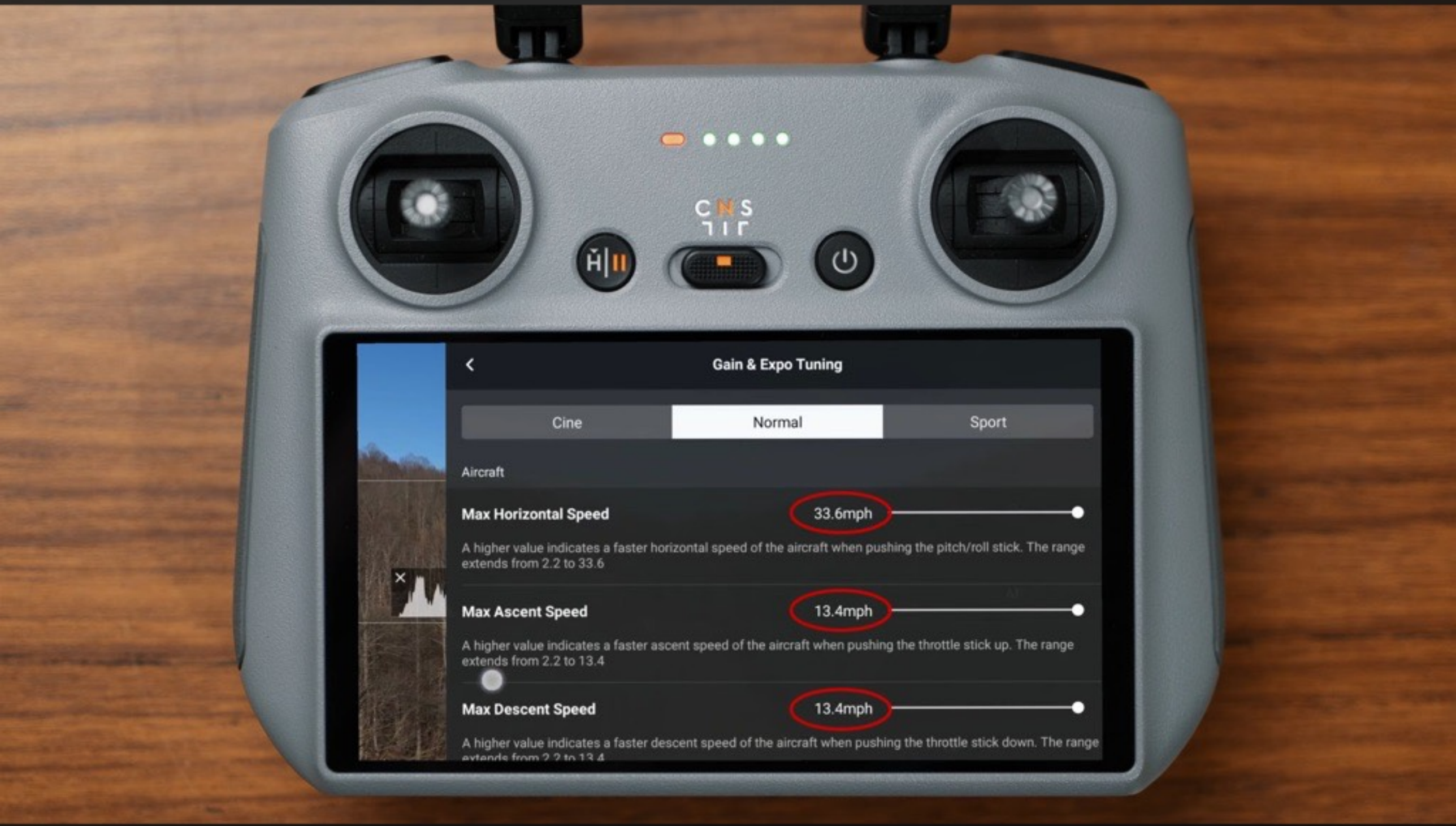
Gain & Expo Tuning
Cine
Normal
Sport
Aircraft
Max Horizontal Speed
33.6mph
A higher value indicates a faster horizontal speed of the aircraft when pushing the pitch/roll stick. The range extends from 2.2 to 33.6
Max Ascent Speed
13.4mph
A higher value indicates a faster ascent speed of the aircraft when pushing the throttle stick up. The range extends from 2.2 to 13.4
Max Descent Speed
13.4mph
A higher value indicates a faster descent speed of the aircraft when pushing the throttle stick down. The range

In “Normal Mode”

“Control” settings: Gain & Expo (to control the “sticks”)

Gain & Expo Tuning
extends from 2.2 to 13.4
Max Angular Velocity
75°/s
A higher value indicates a faster angular velocity of the aircraft when pushing the yaw stick left or right. The range extends from 20 to 90
Yaw Smoothness
15
A higher value indicates a smoother yaw rotation of the aircraft when pushing the yaw stick left or right. The range extends from 1 to 100
Brake Sensitivity
100
A higher value indicates a shorter braking distance of the aircraft after releasing the pitch stick. The range extends from 10 to 150
Expo

In “Normal Mode”

“Control” settings: Gain & Expo (to control the “sticks”)

Gain & Expo Tuning
A higher value indicates a shorter braking distance of the aircraft after releasing the pitch stick. The range extends from 10 to 150
Expo
When the stick is pushed, the X-axis shows the output on the control stick while the Y-axis shows the actual output on the aircraft. The range extends from 0.1 to 0.9
Y
X
Up/ Down
0.25
Yaw
0.15
Pitch/ Roll
0.15
Gimbal

In “Normal Mode”

“Control” settings: Gain & Expo (to control the “gimbal”)

1:12
57%
Gain & Expo Tuning
Pitch/
Roll
0.15
Gimbal
Max Control Speed (Tilt)
15°/s
A higher value indicates a faster gimbal tilt rotation speed when rotating the gimbal dial. The range extends from 1.0 to 100.0
Tilt Smoothness
10
A higher value indicates a smoother tilt rotation of the gimbal when rotating the gimbal dial. The range extends from 0.0 to 30.0
Reset Current Settings

In “Normal Mode”

“Control” settings: Gain & Expo (to control the “gimbal”)

Gain & Expo Tuning
Max Angular Velocity
120°/s
A higher value indicates a faster angular velocity of the aircraft when pushing the yaw stick left or right. The range extends from 20 to 250
Yaw Smoothness
12
A higher value indicates a smoother yaw rotation of the aircraft when pushing the yaw stick left or right. The range extends from 1 to 100
Brake Sensitivity
100
A higher value indicates a shorter braking distance of the aircraft after releasing the pitch stick. The range extends from 10 to 150
Expo

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“Control” settings: Gain & Expo (to control the “gimbal”)

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56%
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Roll
0.25
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Max Control Speed (Tilt)
20°/s
A higher value indicates a faster gimbal tilt rotation speed when rotating the gimbal dial. The range extends from 1.0 to 100.0
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A higher value indicates a smoother tilt rotation of the gimbal when rotating the gimbal dial. The range extends from 0.0 to 30.0
Reset Current Settings

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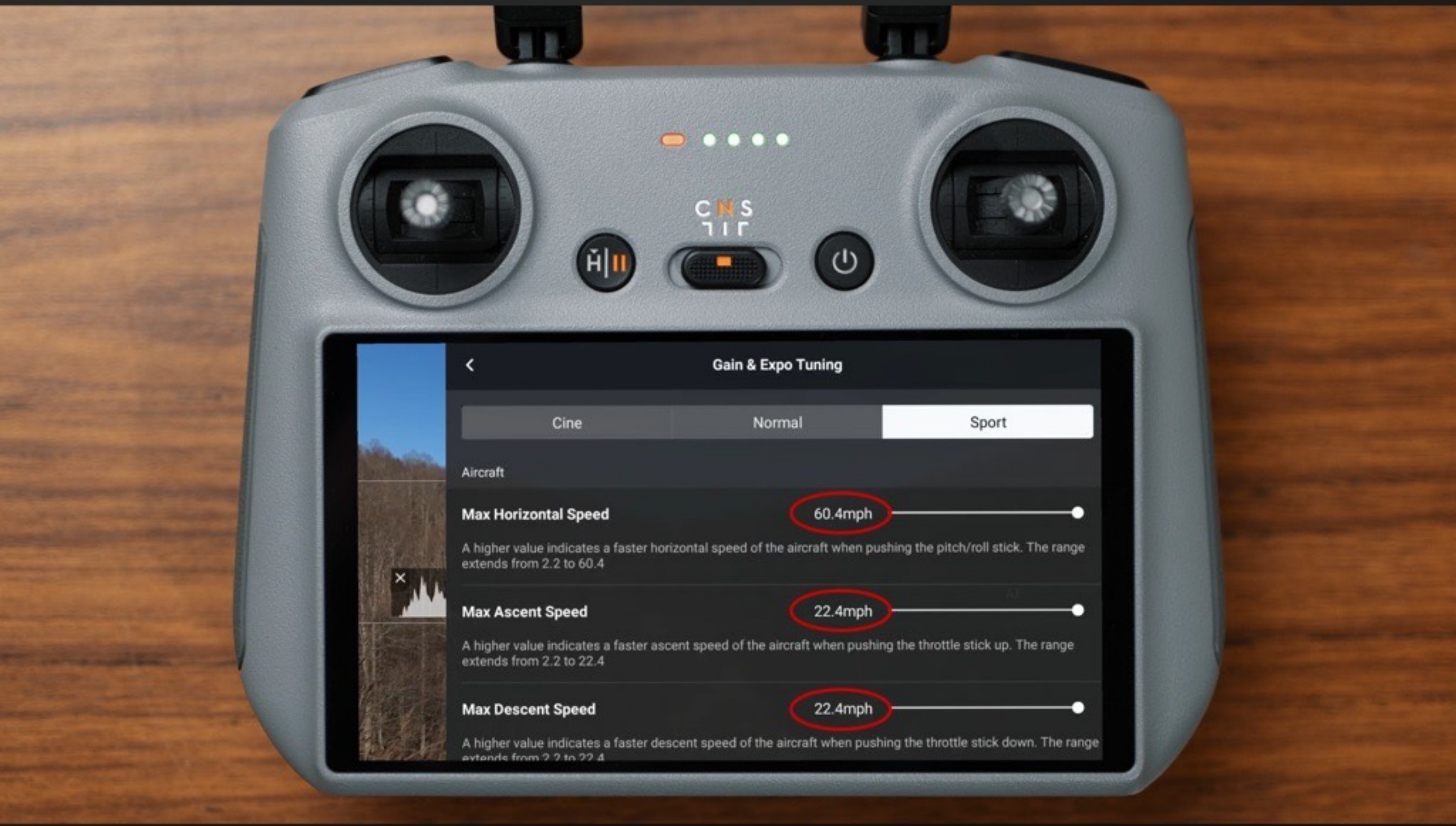
“Control” settings: Gain & Expo (to control the “sticks”)


Gain & Expo Tuning
Cine
Normal
Sport
Aircraft
Max Horizontal Speed
60.4mph
A higher value indicates a faster horizontal speed of the aircraft when pushing the pitch/roll stick. The range extends from 2.2 to 60.4
Max Ascent Speed
22.4mph
A higher value indicates a faster ascent speed of the aircraft when pushing the throttle stick up. The range extends from 2.2 to 22.4
Max Descent Speed
22.4mph
A higher value indicates a faster descent speed of the aircraft when pushing the throttle stick down. The range

In “Sport Mode” = leave at Default

Example stick movement for a “Rising Orbit” shot.

Example stick movement for a “Rising Orbit” shot.

Example (assisted) stick movement for a “Rising Orbit” shot.

Spotlight

Example (assisted) stick movement for a “Rising Orbit” shot.

Spotlight = now you only need control Alt and Roll.
Spotlight will hold focus on point of interest

Color Grading (post production in Premiere)

Before….

Color Grading (post production in Premiere)

After….

Color Grading (post production in Premiere)

Before….

Color Grading (post production in Premiere)

After….

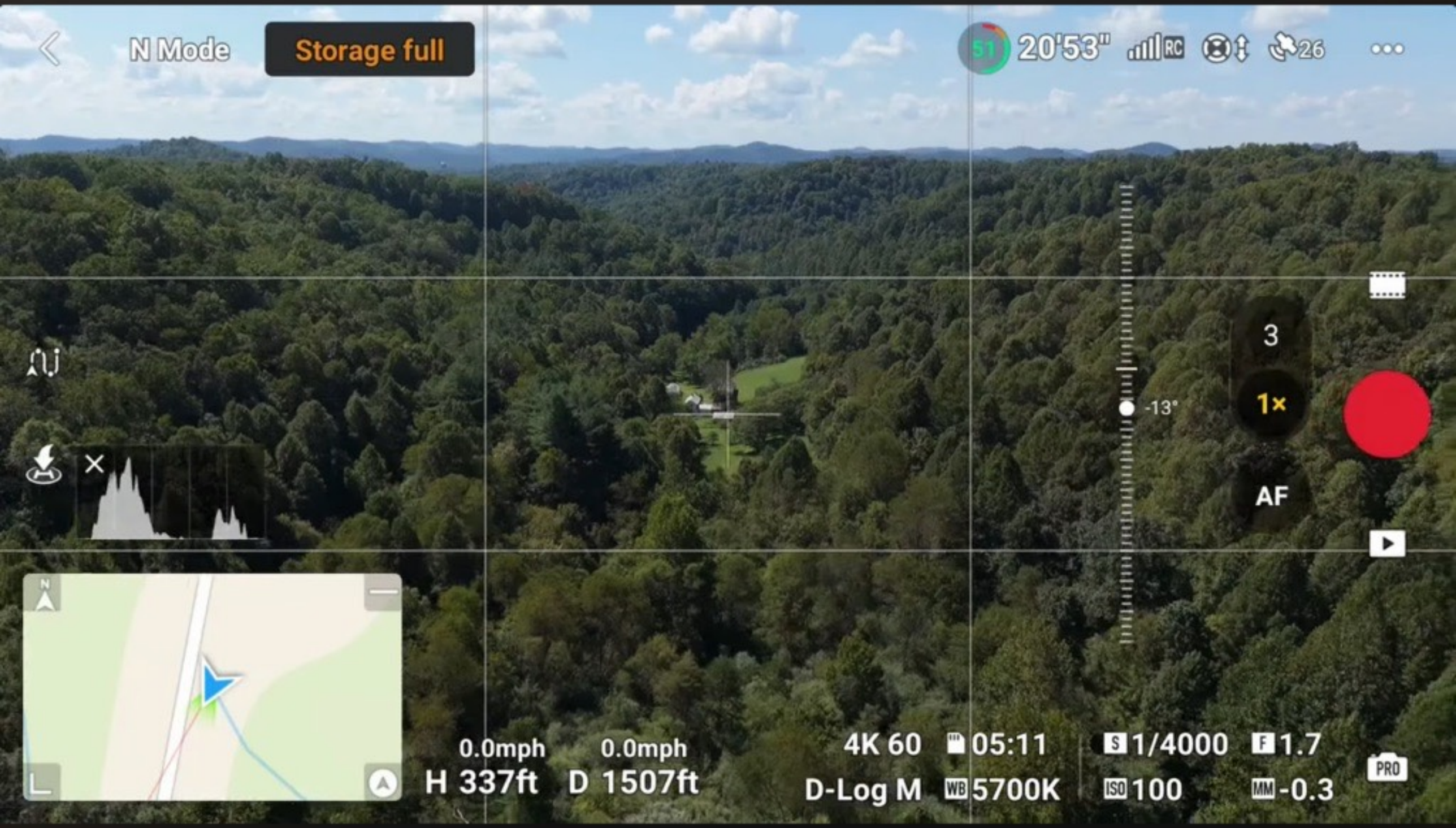
Color Grading (post production in Premiere)

Before….

Color Grading (post production in Premiere)

After….

1x and 3x zoom and pressing and scrubbing up/down for intermediate zoom



Best to stay at 1x or 3x as all others are “digital zoom”

Flying Filmmaker

DJI AIR 3S CINEMATIC SETTINGS

EXPOSURE ☀️

☀️Pro Mode
☀️Manual ISO and Shutter Speed
☀️ISO: As low as possible, ISO 100 is ideal. (In low light, quality is still decent up to ISO 800, good up to ISO 400.)
☀️Shutter Speed: Ideally use ND filters and 180 degree rule - shutter speed = 2X frame rate (24FPS = 1/50th, 30FPS = 1/60th, 60FPS = 1/120th).

WHITE BALANCE 💡

💡Manual White Balance
💡Sunny - 5600K, Cloudy - 6300+, Sunrise/Sunset - 5700K

RESOLUTION & FRAME RATE 🎥

🎥Resolution: 4K
🎥Frame Rate: 30FPS normal, 60FPS for slow motion
🎥SlowMo: 60FPS for ½ speed, 4K 120FPS for ¼ speed
🎥 1080P 240FPS is really bad quality

COLOR PROFILE 🎨

🎨Normal Color: Decently good quality, 10-bit, good for quick shots, less color grading flexibility.
🎨Hybrid Log Gamma (HLG): Good color grading flexibility, somewhat easier to grade than D-LOG M, bug that adjusts contrast and brightness mid shot.
🎨D-LOG M: Best grading flexibility, no contrast adjustment glitches, harder to grade. What I use.
🎨Recommendation: D-LOG M or HLG

Flying Filmmaker

DJI AIR 3S CINEMATIC SETTINGS

GAIN & EXPO TUNING 🎛️

🚁Cine Mode:
🎛️All setting at default
🚁Normal Mode:
🎛️Max Horizontal, Ascent, and Descent Speeds - Max
🎛️Max Angular Velocity - 75 degrees/s
🎛️Yaw Smoothness - 15
🎛️Braking - 100
🎛️Expo - Up/Down = 0.25, Yaw = 0.15, Pitch/Roll = 0.2
🎛️Max Gimbal Tilt Speed - 15 degrees/s
🎛️Tilt Smoothness - 10
🚁Sport Mode:
🎛️Max Horizontal, Ascent, and Descent Speeds - Max
🎛️Max Angular Velocity - 120 degrees/s
🎛️Yaw Smoothness - 12
🎛️Braking - 100
🎛️Expo - Up/Down = 0.3, Yaw = 0.15, Pitch/Roll = 0.25
🎛️Max Gimbal Tilt Speed - 20 degrees/s
🎛️Tilt Smoothness - 15

ZOOM 🔍

🔍1X or 3X camera, other settings have terrible quality.
🔍On DJI RC2, set C2 button to switch between cameras.

MISC CAMERA SETTINGS 📸

📸Histogram: On
📸Center Marker and Thirds Grid: On